

ADDENDUM 1

TIP Number: C-4918A

County: Cabarrus

Poplar Tent (SR1394) and US 29 Intersection Improvements

April 13, 2017

1. Mandatory Pre-bid Meeting Attendance Sheet attached.
2. Special Provision added for Emergency Vehicle Preemption. Attached.
3. Revised Unit Price Schedule adding a pay item for Emergency vehicle preemption device. Attached.
4. Clarification on metal poles and mast arms. Metal poles and mast arms will not have a supplemental durable color coating.
5. Pre-Bid meeting minutes are attached.
6. This addendum shall become a part of the drawings and specifications for the above project.

End of Addendum 1



NORTH CAROLINA

High Performance Living



850 Warren C. Coleman Blvd., P.O. Box 308, Concord, NC 28026 - concordnc.gov

Poplar Tent (SR 1394) and US 29 Intersection Improvements

TIP Number: C-4918A

Prebid Attendance Sheet

March 30, 2017, 2:00 pm

Brown Operations Center

Name Representing Phone #

Table with 3 columns: Name, Representing, Phone #. Contains handwritten entries for attendees like Curtis Barbee, Angela West, Derrick Martin, etc.

Handwritten notes including email addresses: performance.mc@... yahoo.com, ted-usa.com, ted@... com, jason.bree@sealandcontractors.com, ehibbler@blythe-development.com, hydes@concordnc.gov

**CITY OF CONCORD
SPECIAL PROVISION FOR
EMERGENCY VEHICLE PREEMPTION**

EMERGENCY VEHICLE PREEMPTION

1. DESCRIPTION

This work shall consist of furnishing and installing emergency preemption equipment in accordance with these specifications and as shown on the plans or as directed by the Engineer.

2. EQUIPMENT

Emergency preemption equipment shall be optically activated providing all features and functions as the existing equipment with the City's emergency preemption system and shall fully interface with that existing equipment. Existing equipment consists of GTT Model 762 Phase Selectors and Model 711 Optical Detectors.

The preemption conductor cable shall be designed and manufactured explicitly for the use with Infrared preemption detection systems. This cable shall meet the following requirements:

- 600 volt rating
- Three Conductor AWG #20 (7x28) stranded, individually tinned copper: Yellow, Blue, and orange.
- Drain Conductor AWG #20 (7x28) stranded, individually tinned copper
- Aluminized polyester shield with 20% overlap.

Mounting assemblies for the detectors shall be fabricated from corrosion resistant materials or shall be galvanized.

3. PROCEDURES

Locations of optical detectors shown on plans are approximate; exact locations shall be as required for proper alignment. Installation of all emergency preemption equipment shall be in accordance with the manufacturer's recommendations. The Contractor shall provide all equipment necessary to completely install this equipment including programming the phase selectors. Software required for programming the phase selectors shall remain the property of the City. Emergency preemption conductor cables shall be permanently identified and tags shall indicate preempt detector (preempt confirmation for the preemption cable) and the direction of approach. The Contractor shall provide the manufacturer's installation, operational and maintenance manuals for each piece of equipment to the Engineer.

4. TESTING

Testing of the emergency preemption system shall be accomplished in the presence of the City. The Contractor shall contact the City 48 hours in advance to arrange system testing. The City will provide an operator and vehicle equipped with an emitter for the test to determine if equipment is operating and logging properly. Deficiencies shall be corrected and faulty equipment replaced by the Contractor at no expense to the City.

5. MEASUREMENT AND PAYMENT

Emergency vehicle preemption device (1 way) will be measured in units of each and will be paid for at the contract unit price per each. This price shall include the mounting bracket necessary to install the detector on a mast arm or span wire as shown on the plan, mounting and wiring the detector, cabling to connect the optical detectors to the cabinet equipment, installation of the encoded detector card(s), software, installing and wiring all items into the controller cabinet to ensure proper operations of emergency vehicle preemption on approach locations as shown on the plans. No separate measurement or payment will be made for testing, adjustments for proper system operation, or system documentation.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
Emergency vehicle preemption device (1 way)	Each

UNIT PRICE SCHEDULE
City Project # 2008-012
TIP #: C-4918A

	Sect.		Quantity	Unit	Unit Price	Total Amount
No.	No.	Item Description				
		ROADWAY ITEMS				
1	800	Mobilization	1	LS		
2	801	Construction Surveying	1	LS		
3	226	Supplemental Clearing and Grubbing	1	Acre		
4	226	Grading	1	LS		
5	226	Undercut Excavation	250	CY		
6	SP	Borrow Excavation (Pipe Installation)	100	CY		
7	300	Foundation Cond.Mat, Minor Strs	280	Tons		
8	300	Foundation Conditioning Geotextile	870	SY		
9	310	15" RC Pipe Culv, Class III	6	LF		
10	310	15" RC Pipe Culv, Class IV	2,219	LF		
11	310	18" RC Pipe Culv, Class IV	87	LF		
12	310	30" RC Pipe Culv, Class IV	244	LF		
13	310	18" CS Pipe Culv., 0.064" Thick	39	LF		
14	340	Pipe Removal	23	LF		
15	545	Incidental Stone Base	128	Tons		
16	610	Base Course, Type B 25.0 B	1,800	Tons		
17	610	Binder Course, Type I 19.0 B	1,340	Tons		
18	610	Surface Course, Type S 9.5 B	690	Tons		
19	610	Surface Course, Type SF 9.5 A	42	Tons		
20	620	AsphBinder for Plant Mix	185	Tons		
21	SP	Asphalt Based Pavement Sealer	6,458	SY		
22	806	Right of Way Markers	19	Each		
23	840	Pipe Collars	0.6	CY		
24	840	Masonry Drainage Structures	30	Each		
25	840	Masonry Drainage Structures	6.8	LF		
26	840	Frame and Grate, 840.14	7	Each		
27	840	Frame w / Two Grates, 840.17	1	Each		
28	840	Frame w / Two Grates, 840.18	2	Each		
29	840	Frame w / Two Grates, 840.16	7	Each		

30	840	Frame w / Two Grates, 840.24	2	Each		
31	840	Frame w/Grate and Hood 840.03 Type E	2	Each		
32	840	Frame w/Grate and Hood 840.03 Type F	7	Each		
33	840	Frame w/Grate and Hood 840.03 Type G	2	Each		
34	840	MH Frame and Cover, 840.54	4	Each		
35	840	Junction Box 840.31	2	Each		
36	840	T.B.J.B , 840.34	1	Each		
37	846	1'-6" Concrete Curb and Gutter	610	LF		
38	846	2'-0" Concrete Curb and Gutter	260	LF		
39	846	2'-6" Concrete Curb and Gutter	2,720	LF		
40	848	4" Concrete Sidewalk	540	SY		
41	848	Concrete Curb Ramps	14	EA		
42	852	5" Mono. Islands (Surface mounted)	720	SY		
43	852	5" Mono. Islands (Keyed In)	440	SY		
44	858	Adjustment of Catch Basins	1	EA		
45	859	Convert DI to JB	3	EA		
46	859	Convert DI to JB w/ MH	1	EA		
47	SP	Impact Attenuator Unit, Type 350	1	Each		
48	862	Steel Beam Guardrail	525.0	LF		
49	862	Steel Beam Guardrail (Shop Curved)	87.5	LF		
50	862	Additional Guardrail Posts	5	Each		
51	862	Guardrail Anchor, Type AT-1	1	Each		
52	862	Guardrail Anchor, Type CAT-1	2	Each		
53	SP	GRAU, Type 350	1	Each		
54	866	Chain Link Fence, 72" Fabric	358	LF		
55	866	Metal Line Posts for 72" Chain Link Fence	31	Each		
56	866	Metal Term. Posts for 72" Chain Link Fence	10	Each		
57	866	Metal Gate Posts for 72" Chain Link Fence	6	Each		
58	866	Single Gates 72" High, 20' Wide	1	Each		
59	866	Single Gates 72" High, 25' Wide	1	Each		
60	866	Double Gates 72" High, 70' Wide	1	Each		
61	876	Plain Rip Rap, Class I	20	Ton		
62	876	Plain Rip Rap, Class B	2	Ton		
63	876	Geotextile for Drainage	225	SY		

64	901	Contractor Furnished, Type D Sign	30.10	SF		
65	901	Contractor Furnished, Type E Sign	178.25	SF		
66	901	Contractor Furnished, Type F Sign	173.31	SF		
67	903	Supports, 3 LB Steel U-Channel	705.00	LF		
68	904	Sign Erection, Type D	2.00	Each		
69	904	Sign Erection, Type E	34.00	Each		
70	904	Sign Erection, Type F	10.00	Each		
71	907	Disposal of Sign System, U-Channel	17.00	Each		
72	907	Disposal of Support, U-Channel	2.00	Each		
73	907	Disposal of Sign, D, E, or F	2.00	Each		
74	1110	Stationary Work Zone Signs	312	SF		
75	1110	Portable Work Zone Signs	672	SF		
76	1115	Flashing Arrow Board	4	EA		
77	1120	Portable Changeable Message Sign	4	Each		
78	1130	Drums	400	Each		
79	1135	Cones	50	Each		
80	1145	Barricades (Type III)	88	LF		
81	1165	TMA	4	Each		
82	SP	Law Enforcement	20	Hr		
83	1251	Temporary Raised Pavement Markers	175	Each		
84	1205	Paint (4")	30,208	LF		
85	1205	Paint (8")	2,436	LF		
86	1205	Paint (12")	776	LF		
87	1205	Paint (24")	474	LF		
88	1205	Paint Marking Characters	16	Each		
89	1205	Paint Marking Symbols	76	Each		
90	1205	Removal of Pavement Marking (4")	400	LF		
91	1205	Removal of Pavement Marking (24")	150	LF		
92	1205	Removal of Pavement Marking Symbols & Characters	20	Each		
93	1205	Thermoplastic (4", 90 MILS)	12,425	LF		
94	1205	Thermoplastic (4", 120 MILS)	2,679	LF		
95	1205	Thermoplastic (8", 90 MILS)	1,218	LF		
96	1205	Thermoplastic (12", 90 MILS)	388	LF		
97	1205	Thermoplastic (24", 120 MILS)	237	LF		

98	1205	Thermoplastic Pvmt. Mkg. Chars. (120 MILS)	8	Each		
99	1205	Thermoplastic Pvmt. Mkg. Symbols (90 MILS)	38	Each		
100	1253	Snowplowable Raised Pvmt. Markers	175	Each		
101	1515	4" Meter Vault Precast Conc. 8'x6"x5' deep with Hatch	1	Each		
102	1515	2" Meter Box	1	Each		
103	1515	Remove and Reinstall 4" Meter, Valves, and Appurtenances to new Meter Vault	1	EA		
104	1515	Remove and Reinstall 2" Meter, Valves, and Appurtenances to new Meter Box	1	EA		
105	1515	Conc. Pads 4" Thick for Backflow Preventor Reloc.	4	SY		
106	1515	Relocate existng 4" Backflow Preventor Assembly	1	EA		
107	1515	Relocate existng 2" Backflow Preventor Assembly	1	Each		
108	1530	Demolition and Abandonment of exist. Meter Vault, Meter Box and Backflow Conc. Slabs	1	EA		
109	1515	4" Gate Valve & Grade Box	1	Each		
110	1515	2" Gate Valve & Grade Box	1	Each		
111	1510	6" DIP Water Pipe	16	LF		
112	1510	4" DIP Water Pipe	112	LF		
113	1510	2" Brass Pipe Lead-free Water Pipe	50	LF		
114	1515	16"x6"Tapping Sleeve & Valve	1	Each		
115	1515	Relocate existing Firehydrant Assembly	2	Each		
116	1515	Install 6" MJ RJ Plug and Conc. blocking for Fire Hydrant Removal	1	Each		
117	1515	Remove exist. 3/4"-1" Meter Assy. and Reinstall in New Boxes behind New Curb	3	Each		
118	1605	Temporary Silt Fence	805	LF		
119	1610	Erosion Control Stone, Class A	75	Ton		
120	1610	Sediment Control Stone	235	Ton		
121	1615	Temporary Mulching	1	Acre		
122	1620	Seed for Temporary Seeding	100	LB		
123	1620	Fertilizer for Temporary Seeding	0.5	Ton		
124	1622	Temporary Slope Drains	200.0	LF		
125	1631	Matting for Erosion Control	150.0	SY		
126	1632	1/4" Hardware Cloth	1,170	LF		
127	1660	Seeding and Mulching	0.5	Acre		
128	1660	Mowing	0.5	Acre		

129	1661	Seed for Repair Seeding	50.0	LB		
130	1661	Fertilizer for Repair Seeding	0.25	Ton		
131	1662	Seed for Supplemental Seeding	50.00	LB		
132	1665	Fertilizer Topdressing	0.50	Ton		
133	1667	Specialized Hand Mowing	10.00	MHR		
134	1670	Natchez Crape Myrtle (B&B, 1", 6-8')	4	EA		
135	1670	Crimson Pygmy Barberry (1 gal)	20	EA		
136	1670	Mulch for Planting	25	CY		
137	SP	Response for Erosion Control	25.00	Each		
138	SP	Design Retaining Wall	1	LS		
139	SP	Construct Retaining Wall, Sta. 12+41	807	SF		
140	SP	Pedestrian Safety Rail	198.0	LF		
141	1705	Signal Cable	1,300.0	LF		
142	1705	Vehicle Signal Head (12", 3 Section)	12.0	Each		
143	1710	Messenger Cable (1/4")	3,600.0	LF		
144	1715	Tracer Wire	145.0	LF		
145	1715	Paved Trenching (1, 2")	32.0	LF		
146	1715	Unpaved Trenching (1, 2")	1,183.0	LF		
147	1715	Directional Drill (1, 2")	128.0	LF		
148	1716	Junction Box (Standard Size)	8.0	Each		
149	1716	Junction Box (Over-sized, Heavy Duty)	10.0	Each		
150	1722	2" Riser with Heat Shrink Tubing	4.0	Each		
151	1725	Inductive Loop Sawcut	710.0	LF		
152	1726	Lead-in Cable (14-2)	1,480.0	LF		
153	1730	Communications Cable (12 Fiber)	4,000.0	LF		
154	1731	Interconnect Center	4.0	Each		
155	1732	Fiber-Optic Transceiver, Self-healing Ring	3.0	Each		
156	1733	Delineator Marker	4.0	Each		
157	SP	Furnish Fiber-optic Restoration Kit	1.0	Each		
158	SP	Furnish Fiber-Optic Power Meter	1.0	Each		
159	SP	Furnish Optical Light Generator	1.0	Each		
160	SP	Furnish Fiber-Optic OTDR	3.0	Each		
161	SP	Metal Pole with Single Mast Arm	3.0	Each		
162	SP	Soil Test	3.0	Each		

163	SP	Drilled Pier Foundation	21.0	CY		
164	SP	Mast Arm with Metal Pole Design	3.0	Each		
165	1745	Sign for Signals	4.0	Each		
166	1750	Signal Cabinet Foundation	4.0	Each		
167	1751	Controller with Cabinet (Type 2070L, Base Mounted)	4.0	Each		
168	1751	Detector Card (Type 2070L)	9.0	Each		
169	1753	Cabinet Base Extender	4.0	Each		
170	SP	Ethernet Edge Switches	1.0	Each		
171	SP	Emergency vehicle preemption device	1.0	Each		

TOTAL BID	\$
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**Poplar Tent (SR 1394) and US 29
Intersection Improvements**

TIP Number: C-4918A

Prebid Meeting Minutes

March 30, 2017, 2:00 pm

Brown Operations Center

1. Project Location/Scope – US 29 and Poplar Tent/McGill Street Intersection. Install three signalized bulbs to create a modified super street intersection. Work includes grading, storm drain, signals, pavement marking, curb and gutter, asphalt, wall design and construction and driveway closures.
2. Bids Due: April 20th at 2:00 pm, Ready Room. Address 850 Warren C. Coleman Blvd.
3. Date of availability – not before May 15, 2017 or later than July 1, 2017
4. Completion date – 180 calendar days.
5. Liquidated damages - \$750/calendar day.
6. Day and Time restrictions on US 29 – Monday thru Friday 6 am to 9 pm.
7. Maintain driveway access to businesses.
8. DBE goal – 6%
9. Availability of lands/Easements. Easements are acquired.
10. Project Special Provisions include asphalt pavement sealer, design and construct retaining wall, pedestrian safety rail.
11. Utilities – Concord Electric has poles to relocate at bulb location near Punchy's diner. Gas Company has a line to relocate to avoid storm on McGill.